

REMARKS

Reconsideration of this application, in view of the foregoing amendments and the following remarks, is respectfully requested.

Claim Objections

Claim 11 is objected to because of certain informalities. Claim 11 has been amended to remove the informality.

Claim Rejections - 35 USC § 112

Claims 1 and 8 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. Applicants respectfully traverse these rejections.

The Examiner has cited the omission of zero padding of the channel impulse response before finding the channel estimate, citing description on page 6, lines 20-22. Applicants respectfully point to the Examiner that the function of channel estimator is further explained with reference to figure 2 on page 7, lines 1-31. Specifically, on lines 30-31, Applicants have stated that the phase corrected channel impulse response is padded with zeros "as necessary", which makes it an optional step performed when necessary. If the corrected channel impulse response does not proved gaps to be filled with zeros, then there is no need to pad it with zeros. Therefore, omission of zero padding does not amount to a gap between the steps. Accordingly, Applicants respectfully request the withdrawal of the rejection of claims 1 and 8 under 35 U.S.C. §112, second paragraph.

Claim Rejections - 35 USC § 103

Claims 1, 6, 7, 8, 12, 13 and 15-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nagayasu et al., US Patent No. 6,347,126. Applicants respectfully traverse these rejections.

Claim 1 has been canceled thus, its rejection has been rendered moot.

Claims 6-7 now depend from amended claim 2, which has been indicated to be allowable. Accordingly, claims 6-7 are now allowable for at least the same reasons as claim 2.

Claim 8 has been amended to include limitation that has been indicated by the Examiner to be allowable. Accordingly, claim 8 is believed to be allowable.

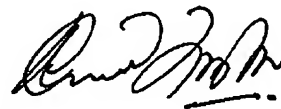
Claim 12 has been amended to recite that the phase corrected channel impulse response is padded with zeros before being transformed into the portion of the channel estimate. This limitation is not described by Nagayasu et al. Accordingly, claim 12 is patentably distinguishable from the cited reference.

Claim 13 depends from claim 12 and is patentably distinguishable from the cited reference for at least the same reasons as claim 12.

Claim 15 has been amended to include limitation that has been indicated by the Examiner to be allowable. Accordingly, claim 15 and those depend therefrom are believed to be allowable.

Applicant believes this application and the claims herein to be in a condition for allowance. Should the Examiner have further inquiry concerning these matters, please contact the below named attorney for Applicant.

Respectfully submitted,



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